Historic Preservation in Utah: Enhanced Public Access

Using ArcGIS Server to distribute public data

Matt Peters, Utah Automated Geographic Reference Center
Summary Of Programs

- National Register of Historic Places
- Architectural Surveys.
- Local Government (CLG) Program
- Tax Credits for Historic Building Rehabilitation (Federal and State)
- Utah Architectural Database
- Architectural/Technical Assistance to Historic Building Owners
- Preservation Education
What Does AGRC Do?

The Automated Geographic Reference Center …

• Facilitates and promotes the use of GIS in Utah using Enterprise solutions where possible.

• Houses the State Geographic Information Database (SGID).

• Completes production work, projects, data development.
Enterprise GIS In Utah

State History

AGRC SGI D

Local Government

Federal Government
How It All Began

• AGRC and State History teamed up in the early 90’s.

• AGRC and Historic Preservation became acquainted last year

• Historic Preservation wanted to allow easy public access to the data.
Then and Now

• In the past, it was hard to share data about Historic Sites etc..

• There was a large amount of disparate tabular data

• Now, we have a centralized application for data access.
What is State History’s Need?

**Vision:**
To facilitate and enhance common interactions between Utah SHPO and its customers

1) Data In
2) Data Out
3) Streamline the Workflow
The Way it Was

- **Data In**: Clients mailed hard copy records and maps to be digitized and encoded by State History staff.

- **Data Out**: Customers do background research by traveling to State History offices and manually searching the files and paper maps.

- **Workflow**:
  - Inadequate linkages between historic site data and the public.
  - Paper documents passed to many individuals for review.
My Place on the List?

HOW TO RESEARCH YOUR HOUSE
UTAH OFFICE OF PRESERVATION
(REVISED 11/2005)

First, check to see whether your house has already been documented. The Office of Preservation at the Utah State Historical Society has files on hundreds of buildings throughout the state, including those listed in the State and National registers. Copies are available for a nominal cost. The Office of Preservation is located in the old Rio Grande depot at 300 Rio Grande, Salt Lake City, Utah, 84101 (533-3500). If your house has not been documented previously, then you should check the following sources for information: 1. Title abstracts (County Recorder's Office)--Research all the transactions involving your property, noting the date, names of buyers and sellers, and the dollar amounts and types of transactions (warranty deed, quit claim deed, mortgage, etc.). Indications of a construction date are the first relatively large mortgage or the dramatic increase in the selling price of the property. Note: you will need the legal description of the property to do this research, not simply the address. 2. Sanborn Maps (Utah…………………...
The New Way!

- **Data In**: Staff will create new records through an ArcGIS Server application.

- **Data Out**: Customers/Public do research from their own desks using search features in the same ArcGIS Server application.
What is Needed

• **Needs Assessment**
  – Meeting with staff to create “wish list”
  – AGRC Familiarized itself with State History/Historic Preservation’s business processes.
Trying to Make Sense...

- **Technology Decisions**
  - What software is most appropriate for the task?
  - Programming language?
  - System architecture (assess adequacy of current architecture)
In the Back Room.....
The Really Hard Part!

• Database Overhaul
  – Redesign and normalize
  – Create persistent relationships
  – Data cleansing, domains to prevent future errors
Database Design
The Rubber Meets the Road!

Application Development
Proof of Concept
Searching
The Results

Search Properties:
- Search By District
- Search By Address
- Search By County or City
- Search By Shape

Map Options:

Search found 3 properties for: 326 E South Temple, 04111

<table>
<thead>
<tr>
<th>#</th>
<th>Site Name</th>
<th>Site Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CATHEDRAL OF THE MADRE DE</td>
<td>331 E SOUTH TEMPLE</td>
</tr>
<tr>
<td>2</td>
<td>GREENHOUSE APARTMENTS</td>
<td>326 E SOUTH TEMPLE</td>
</tr>
<tr>
<td>3</td>
<td>BARBARA WORTH APARTMENTS</td>
<td>326 E SOUTH TEMPLE</td>
</tr>
</tbody>
</table>

[Previous 15 Results] [Next 15 Results] Export to Excel

Information on Address: 326 E SOUTH TEMPLE

- Address: 326 E South Temple
- City: Salt Lake City
- Site Name: Barbara Worth Apartments
- Evaluation: Eligible/significant
- Construction Date: 1931
- National Register Status: South Temple Historic District
- Comments: Not Available
- Photo: Not Available

Generate Form
**Historic Site Form**

(Historic Sites Database Version)  
State Historic Preservation Office

1. **Identification**
   - Property Name: BARBARA WORTH APARTMENTS  
   - Address: 306 E SOUTH TEMPLE  
   - City: SALT LAKE CITY  
   - County: SL21  
   - ID#: 21140  
   - Old ID#: 20100  
   - Plat: D  
   - Block: 063  
   - Site: 104

2. **Documentation/Status**
   - Evaluation:  
   - National Register Status: ELIGIBLE/SIGNIFICANT  
   - Date Listed: SOUTH TEMPLE HISTORIC DISTRICT  
   - Date Delisted:  
   - Thematic or MPS Affiliation:  
   - Dates Surveyed / Added SHPO File:  
     - Recon. Level Survey: /  
     - Intensive Level Survey: 10/88  
     - General/Misc. File: /  
   - Areas of Significance:

3. **Building Information**
   - Date(s) of Construction: 1931  
   - Height in Stories: 3  
   - Original Use: MULTIPLE DWELLINGS  
   - Out Buildings: 0  
   - Contributing: 0  
   - Comments: 2/17/2004 12:00:00 AM  
   - Plan/Type:  
     - Style(s):  
       - Material(s):  
         - Architect(s):  
           - Non-Contributing: 0

4. **Other SHPO File Information**
   - Federal Tax Project #:  
   - State Tax Project #:  
   - 106 Case #:  
   - Development Grant:  
   - Historic Photo Date:  
   - HABS/HAER:  

**UTAH AGRC**  
Automated Geographic Reference Center  
Department of Community & Culture  
Utah State History
Down The Road

This is just the first step . . .

• Continue to enhance software based on user feedback on desired functionality.

• Develop a form-based data entry system to replace current one

• Move from Access to SQL Server

• Integrate closer with other applications at State History
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